

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles						P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	8,176.422	-	8,176.422	-	-	-	-	-	216,556.832
Description: The Abrams Tank Fleet Modification Program applies Materiel Developer and Combat Developer approved modifications to the fielded Abrams family of vehicles either through field modifications at the unit or through application during vehicle recapitalization. Common Abrams modifications include Vehicle Health Management, Blue Force Tracking, Mounted Family of Computer System (MFoCs) and Power Train Improvement & Integration Optimization Program (i.e. Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise) which provide more reliability, durability, and a single standard for the vehicle's power train. Survivability improvements include frontal and side armor upgrades. Key safety improvements include the loaders tray modification, ammunition rack upgrades, and Rear View Sensing System (RVSS). The Abrams program must execute a series of Engineering Change Proposals (ECPs) to address capability gaps on the tank fleet. These technology upgrades will be integrated through a recapitalization program between Anniston Army Depot and General Dynamics Land Systems (GDLS). ECP 1A addresses interoperability on the new network and system shortfalls in electrical power to enable integration of approved directed requirements, survivability improvements and an electronics refresh to address obsolescence and significantly improve sustainability. Specifically the upgrades include an updated Handheld Manpack Small (HMS) communication system, a new 1,000 amp generator, power management distribution system (a new slip ring, battery monitoring system, and an Auxiliary Power Unit (APU)), the integration kit for the Counter Radio-Controlled IED Electronic Warfare (CREW/Duke3), Next Generation Armor, Ammunition Data Link (ADL) to enable the system to fire a smart round currently under development, and the upgrade of six (6) line replaceable units (LRUs) to line replaceable modules (LRMs).												
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020		
Army	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-		
	Total Obligation Authority	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles					P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GA0700 / Mods (Increase Performance)	P-3a		- / 5,021.591	- / 178.100	- / 237.023	- / 367.939	- / -	- / 367.939
Total Gross/Weapon System Cost			- / 5,021.591	- / 178.100	- / 237.023	- / 367.939	- / -	- / 367.939
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GA0700 / Mods (Increase Performance)	P-3a		- / 489.437	- / 606.014	- / 451.773	- / 496.647	- / 16,622.398	- / 24,470.922
Total Gross/Weapon System Cost			- / 489.437	- / 606.014	- / 451.773	- / 496.647	- / 16,622.398	- / 24,470.922
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.								
<p>Justification:</p> <p>FY 2016 base procurement dollars in the amount of \$367.939 million support the procurement and field application of the following: Ammunition Data Link (ADL), Vehicle Health Management and Embedded Training (VEM), and Commander's Remote Operated Weapon Station Low Profile (CROWS-LP). Begins ECP 1A hardware procurement for installation during vehicle recapitalization in FY 2017. Funding will continue the support of the Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise programs, Direct Support Electrical System Test Sets (DSESTS) and upgrades to Training Aids, Devices, Simulators and Simulations (TADSS). This funding supports optimizing the production facility and equipment at the Joint Systems Manufacturing Center, Lima OH and Allison Transmission to support the start of future production to produce efficiently at low volumes. Qualification of an alternate source of supply for the transmission and other tank components will be analyzed. Government and contractor salaries will be funded from this line.</p> <p>In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>								

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)				Modification Number / Title: GA0700 / Mods				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	8,176.422	-	8,176.422	-	-	-	-	-	216,556.832
Description:												
Modifications to the Abrams Family of Vehicles. Supports the procurement and field application of the following: Ammunition Data Link (ADL), Vehicle Health Management and Embedded Training (VEM), and Commander's Remote Operated Weapon Station Low Profile (CROWS-LP). Begins ECP 1A hardware procurement for installation during vehicle recapitalization in FY 2017. Funding will continue the support of the Total Integrated Engine Revitalization (TIGER) and Transmission Enterprise programs, Direct Support Electrical System Test Sets (DSESTS) and upgrades to Training Aids, Devices, Simulators and Simulations (TADSS). This funding supports optimizing the production facility and equipment at the Joint Systems Manufacturing Center, Lima OH and Allison Transmission to support the start of future production to produce efficiently at low volumes. Qualification of an alternate source of supply for the transmission and other tank components will be analyzed. Government and contractor salaries will be funded from this line.												
Abrams Field Upgrades (MOD 2): Provides funding for components and labor for required safety and other field related modifications. These modifications correct or alleviate operational deficiencies, improve reliability and maintainability, correct faulty performance or quality, reduce logistical support requirements, standardize equipment and training devices, prevent injury or damage to equipment, and meet environmental protection standards identified during testing, training exercises or in combat. Field modifications include Blue Force Tracking (BFT) 2 and Mounted Family of Computer System (MFoCS), Ammunition Data Link (ADL), Vehicle Health Management and Embedded Training (VEM), Handheld Manpack Small (HMS) and Commander's Remote Operated Weapon Station Low Profile (CROWS-LP). Installation of hardware is generally conducted on a unit-by-unit basis by several field modification teams and is subject to availability. Installation costs are included in the contractor costs and cannot be broken out.												
Engineering Change Proposal (ECP) 1A (MOD3): Funding for Engineering Change Proposal (ECP) 1A includes the procurement and application of Army Directed requirements and Space Weight and Power-Cooling (SWAP-C) buyback components during the recapitalization (RECAP) of the Abrams tank. Each vehicle will be overhauled to a zero hour/zero mile condition and then reassembled with the following additional hardware: Handheld Manpack Small (HMS), Power Generation/Distribution improvements including Battery Monitoring System (BMS), 1000 Amp Generator, Slip Ring, Counter Remote Controlled Improvised Explosive Device Electronic Warfare (CREW) III integration, Next Generation Armor, Ammunition Data Link (ADL) integration to enable firing of programmable munitions, and Under Armor Auxiliary Power Unit (UAAPU). Procurement of ECP 1A Hardware kits will begin in FY 2016. Vehicle induction, ECP kit application, and vehicle recapitalization will begin in FY 2017.												
Armor (MOD 4): Armor is provided by the Department of Energy (DOE). The armor facility was maintained at a sustainable level to maintain the industrial base and minimize the loss of skilled labor. In that regard, FY15 funding supported the procurement of various classified armor components that could be configured to support both current and future production/recapitalization requirements. FY16 and beyond procures full Next Generation Armor packages which will be applied during ECP 1A vehicle recapitalization.												
Program/Engineering Support (MOD 5): This modification line funds contractor and government program/project managers' salaries, benefits, TDY, office automation, administration, and supplies. These funds also provide for dedicated functional support from the Tank Automotive Command (TACOM), Army Research and Development Command (ARDEC), Anniston Army Depot (ANAD), Joint Systems Manufacturing Center (JSMC), Abrams Material Fielding Team at Ft. Hood, Texas, and other government sites. Additionally, this modification line funds System Technical Support (STS) from General Dynamics Land Systems (GDLS), General Dynamics Canada (GDC), Raytheon, and DRS Technologies. Formerly, these costs were funded in the Abrams Upgrade production line.												

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)	Modification Number / Title: GA0700 / Mods

Power Pack Improvement & Integration Optimization (MOD 6): This modification reduces the Operating and Support (O&S) cost of the Abrams Tank power train. It equips the Abrams fleet with more reliability/durability, fuel efficiency and provides a single overhaul standard for the vehicle's power train. This modification line funds System Technical Support (STS) from Honeywell for the TIGER engine and Allison Transmission. Qualification of an alternate source of supply for the transmission will be analyzed.

Training Devices (MOD 7): Provides funding for Training Aids, Devices, Simulators and Simulations (TADSS) in support of the Abrams family of vehicles. System training devices are required to remain current with upgraded fleet configuration/capabilities. TADSS include Maintenance Trainers, Gunnery Trainer Tech Refresh, Common Drivers Trainer Upgrades, Desktop Trainer Lesson modifications, Abrams Common Software Library modifications and Through Sight Video (TSV). Contractor dates will vary by item and cannot be predicted. Includes non-recurring engineering for hardware and software changes, procurement cost of the hardware associated with modifications to existing training devices, and field installation at the unit.

Line Optimization for Low Volume Production (MOD 8): This funding will be used to study, develop, and implement efficient manufacturing processes at the Joint Systems Manufacturing Center (JSMC) Lima, OH in preparation for Abrams future production. Internal restructuring is required on the production line to optimize manufacturing with increased efficiency at the lower manufacturing rates forecasted for the Abrams ECP (M1A2 SEP v3) production. This will include relocating several machines and establishing new manufacturing lines and layouts, allowing the build of the newest Abrams variant at a lower volume while still maintaining surge production capability.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)				Modification Number / Title: GA0700 / Mods					
Models of Systems Affected: Abrams Family of Vehicles				Modification Type: Increase Performance				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 8: Prior Year Closed Mods													
A Kits													
Non-Recurring													
Other	0 / 2,842.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.059	
Subtotal: Non-Recurring	- / 2,842.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.059	
Subtotal: Prior Year Closed Mods	0 / 2,842.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,842.059	
Modification Item 2 of 8: Abrams Field Upgrades													
A Kits													
Recurring													
CROWS-LP B Kits	- / -	- / -	- / -	149 / 20.511	- / -	149 / 20.511	270 / 19.944	540 / 40.686	90 / 6.917	90 / 7.055	- / -	1,139 / 95.113	
VEM	- / -	- / -	- / -	90 / 5.015	- / -	90 / 5.015	270 / 15.346	540 / 31.206	270 / 15.966	270 / 16.286	- / -	1,440 / 83.819	
Ammunition Data Link (ADL)	- / -	- / -	315 / 13.923	90 / 26.337	- / -	90 / 26.337	330 / 18.087	600 / 33.640	330 / 18.818	330 / 19.195	- / -	1,995 / 130.000	
Handheld Manpack Small (HMS) A Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 3.138	330 / 7.087	330 / 7.229	- / -	810 / 17.454	
Safety/Operational Mods	0 / 23.450	- / -	- / 19.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 43.272	
Support Equipment and TPF	0 / 37.043	- / 14.590	- / 16.720	- / 12.299	- / -	- / 12.299	- / 12.545	- / 12.796	- / 13.052	- / 13.313	- / -	- / 132.358	
Subtotal: Recurring	- / 60.493	- / 14.590	- / 50.465	- / 64.162	- / -	- / 64.162	- / 65.922	- / 121.466	- / 61.840	- / 63.078	- / -	- / 502.016	
Non-Recurring													
Installation Kits	0 / 283.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,577.270	- / 4,860.670	
CROWS-LP Engineering Support	- / -	- / 6.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.283	
Subtotal: Non-Recurring	- / 283.400	- / 6.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,577.270	- / 4,866.953	
Subtotal: Abrams Field Upgrades	0 / 343.893	- / 20.873	315 / 50.465	329 / 64.162	- / -	329 / 64.162	870 / 65.922	1,830 / 121.466	1,020 / 61.840	1,020 / 63.078	- / 4,577.270	5,384 / 5,368.969	
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A													
A Kits													
Recurring													
ECP Modification Kits	- / -	- / -	- / -	45 / 114.712	- / -	45 / 114.712	60 / 135.273	60 / 137.804	60 / 134.536	60 / 139.721	1,326 / 4,789.507	1,611 / 5,451.553	
Subtotal: Recurring	- / -	- / -	- / -	- / 114.712	- / -	- / 114.712	- / 135.273	- / 137.804	- / 134.536	- / 139.721	- / 4,789.507	- / 5,451.553	

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)				Modification Number / Title: GA0700 / Mods				
Models of Systems Affected: Abrams Family of Vehicles			Modification Type: Increase Performance					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Subtotal: Engineering Change Proposal (ECP) 1A												
Modification Item 4 of 8: Armor												
A Kits												
Recurring												
Armor Sets												
Next Generation Armor												
Subtotal: Recurring												
Non-Recurring												
Installation Kits												
Subtotal: Non-Recurring												
Subtotal: Armor												
Modification Item 5 of 8: Program/Engineering Support												
A Kits												
Recurring												
System Technical Support												
Government Program Support												
Contractor Program Support												
Government Test Support												
Subtotal: Recurring												
Subtotal: Program/Engineering Support												
Modification Item 6 of 8: Power Pack Improvement & Integration Optimization												
A Kits												
Recurring												
System Technical Support												
Subtotal: Recurring												
Non-Recurring												

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Exhibit P-3a, Individual Modification: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)				Modification Number / Title: GA0700 / Mods				
Models of Systems Affected: Abrams Family of Vehicles			Modification Type: Increase Performance					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation Kits	2,691 / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,691 / 930.300
Subtotal: Non-Recurring	- / 930.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 930.300
Subtotal: Power Pack Improvement & Integration Optimization	2,691 / 988.632	- / 17.505	- / 16.260	- / 8.200	- / -	- / 8.200	- / 20.280	- / 26.794	- / 5.420	- / 5.400	- / -	2,691 / 1,088.491
Modification Item 7 of 8: Training Devices												
A Kits												
Recurring												
Training Equipment Modifications	0 / 99.099	- / 5.128	- / 11.501	- / 9.482	- / -	- / 9.482	- / 20.595	- / 63.640	- / 6.002	- / 34.098	- / -	- / 249.545
Subtotal: Recurring	- / 99.099	- / 5.128	- / 11.501	- / 9.482	- / -	- / 9.482	- / 20.595	- / 63.640	- / 6.002	- / 34.098	- / -	- / 249.545
Subtotal: Training Devices	0 / 99.099	- / 5.128	- / 11.501	- / 9.482	- / -	- / 9.482	- / 20.595	- / 63.640	- / 6.002	- / 34.098	- / -	- / 249.545
Modification Item 8 of 8: Line Optimization for Low Volume Production												
A Kits												
Recurring												
Production Line Optimization	- / -	- / -	- / 13.080	- / 12.607	- / -	- / 12.607	- / 14.967	- / 10.850	- / 10.688	- / 9.991	- / -	- / 72.183
Subtotal: Recurring	- / -	- / -	- / 13.080	- / 12.607	- / -	- / 12.607	- / 14.967	- / 10.850	- / 10.688	- / 9.991	- / -	- / 72.183
Subtotal: Line Optimization for Low Volume Production	- / -	- / -	- / 13.080	- / 12.607	- / -	- / 12.607	- / 14.967	- / 10.850	- / 10.688	- / 9.991	- / -	- / 72.183
Subtotal: Procurement, All Modification Items	3,582 / 5,021.591	20 / 178.100	339 / 237.023	419 / 367.939	- / -	419 / 367.939	990 / 454.363	1,950 / 563.179	1,140 / 409.996	1,140 / 455.189	2,652 / 15,552.352	12,232 / 23,239.732
Installation												
Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / 35.074	60 / 42.835	60 / 41.777	60 / 41.458	1,386 / 1,070.046	1,611 / 1,231.190
Modification Item 4 of 8: Armor	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / -	60 / -	60 / -	60 / -	1,386 / -	1,611 / -
Subtotal: Installation	0 / 0.000	- / -	- / -	- / -	- / -	- / -	90 / 35.074	120 / 42.835	120 / 41.777	120 / 41.458	2,772 / 1,070.046	3,222 / 1,231.190
Total												
Total Cost (Procurement + Support + Installation)	5,021.591	178.100	237.023	367.939	-	367.939	489.437	606.014	451.773	496.647	16,622.398	24,470.922

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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods		
Modification Item 1 of 8: Prior Year Closed Mods							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): x					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
Modification Item 2 of 8: Abrams Field Upgrades							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor Teams						Installation Quantity: 0	

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Exhibit P-3a, Individual Modification: PB 2016 Army						Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20				P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)				Modification Number / Title: GA0700 / Mods			

Modification Item 3 of 8: Engineering Change Proposal (ECP) 1A

Manufacturer Information

Manufacturer Name: General Dynamics and Anniston Army Depot						Manufacturer Location: ANAD, AL and JSMC Lima, OH					
Administrative Leadtime (in Months): 6						Production Leadtime (in Months): 18					

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: X

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / 35.074	- / -	- / -	- / -	- / -	45 / 35.074
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	60 / 42.835	- / -	- / -	- / -	60 / 42.835
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 41.777	- / -	- / -	60 / 41.777
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 41.458	- / -	60 / 41.458
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 40.591	60 / 40.591
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,326 / 1,029.455	1,326 / 1,029.455
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / 35.074	60 / 42.835	60 / 41.777	60 / 41.458	1,386 / 1,070.046	1,611 / 1,231.190

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	12	15	15	15	15	15	15	15	15	15	15	15	1,401	1,611	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11	12	12	14	15	15	15	15	15	15	15	15	1,436	1,611	

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Exhibit P-3a, Individual Modification: PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	

Modification Item 4 of 8: Armor

Manufacturer Information

Manufacturer Name: Department of Energy				Manufacturer Location: Various			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 12			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Delivery Dates		Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation: X

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / -	- / -	- / -	- / -	- / -	45 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	60 / -	- / -	- / -	- / -	60 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / -	- / -	- / -	60 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / -	- / -	60 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / -	60 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,326 / -	1,326 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	45 / -	60 / -	60 / -	60 / -	1,386 / -	1,611 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	12	15	15	15	15	15	15	15	15	15	15	15	1,401	1,611
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11	12	12	14	15	15	15	15	15	15	15	15	1,436	1,611

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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods		
Modification Item 5 of 8: Program/Engineering Support							
Manufacturer Information							
Manufacturer Name: x				Manufacturer Location: x			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 1			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Oct 2013	Oct 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019
Delivery Dates	Nov 2013	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019
Installation Information							
Method of Implementation (Organic): x					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20			P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods	
Modification Item 6 of 8: Power Pack Improvement & Integration Optimization							
Manufacturer Information							
Manufacturer Name: Honeywell and Allison Transmission					Manufacturer Location: Phoenix, AZ and Indianapolis, IN		
Administrative Leadtime (<i>in Months</i>): 6					Production Leadtime (<i>in Months</i>): 1		
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Apr 2014	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Installation Information							
Method of Implementation (Organic): Contractor Support						Installation Quantity: 0	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods		
Modification Item 7 of 8: Training Devices							
Manufacturer Information							
Manufacturer Name: PEO Simulation, Training, and Instrumentation				Manufacturer Location: Orlando, FL			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Contractor Support					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		P-1 Line Item Number / Title: GA0700 / M1 Abrams Tank (MOD)			Modification Number / Title: GA0700 / Mods		
Modification Item 8 of 8: Line Optimization for Low Volume Production							
Manufacturer Information							
Manufacturer Name: X				Manufacturer Location: Joint Systems Manufacturing Center Lima, OH			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		